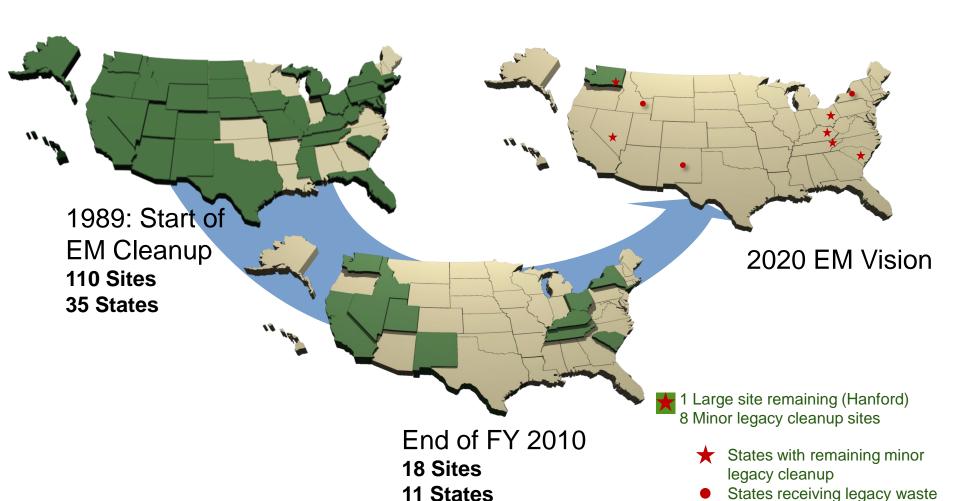


EM's Journey to Excellence WM Symposia 2011

Dr. Inés Triay

Assistant Secretary
Office of Environmental Management
U.S. Department of Energy

We have a clear vision of the future . . .





or awaiting decisions on high

level waste

We are turning our liabilities into assets . . .

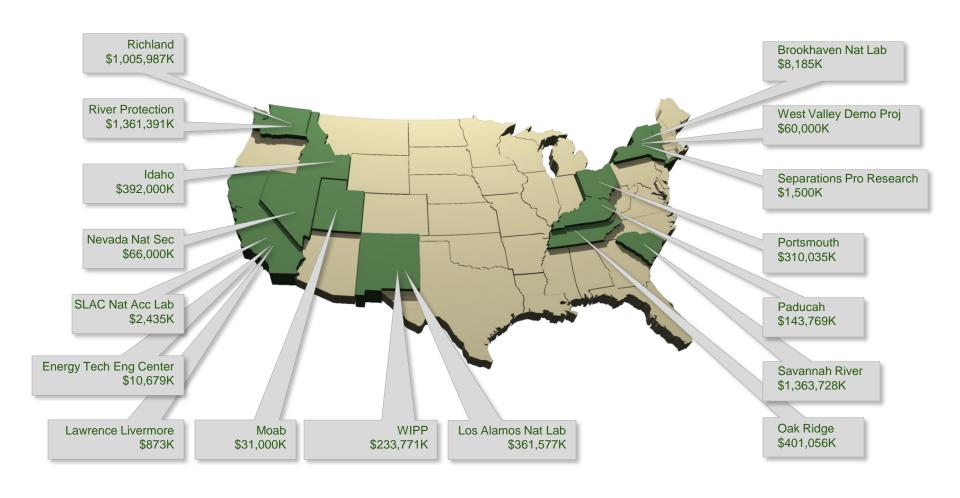
- Safe, Secure, and Compliant
- Tank Waste
- Spent (used) Nuclear Fuel
- Special Nuclear Material
- High Priority Groundwater Remediation
- Transuranic and Mixed/Low-Level Waste
- Soil and Groundwater Remediation
- Deactivation and Decommissioning (D&D)





• Program Direction, Program Support, Community & Regulatory Support, Technology Development & Deployment, and Post-Closure Administration

EM's 2012 budget request maintains compliance . . .



To achieve our 2020 vision, we will . . .

Build on the ARRA momentum

Complete the three major tank waste construction projects:

- Sodium Bearing Waste Facility by 2012
- Salt Waste Processing Facility by 2014
- Waste Treatment Plant by 2019
- ➤ Disposition 90% of legacy TRU waste by 2015
- > Shrink the EM legacy footprint 90% by 2015
- Reduce life-cycle costs by up to \$36B

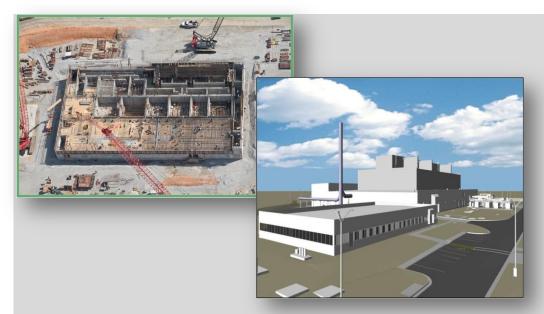


EM's Cleanup Vision: Down to ONE Major Site

... complete the three major tank waste construction projects by 2019 ...

Sodium Bearing Waste Facility

Construction complete 2011 (operational 2012)



Salt Waste Processing Facility

Construction complete 2014 (operational 2014)

Waste Treatment Plant

Construction complete 2016 (operational 2019)





... reduce lifecycle costs ...

- \$7B lifecycle cost savings and avoidance via ARRA
- Accelerate tank waste schedule 6 years at SRS and 7 years at Hanford; reducing EM's environmental liability and LCC by \$3B at SRS and \$16B at Hanford

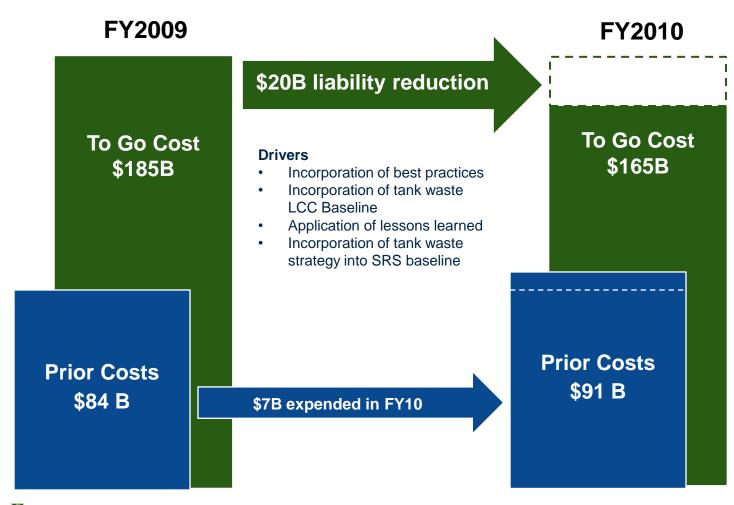




Fluidized Bed Steam Reformer

... and environmental liability ...

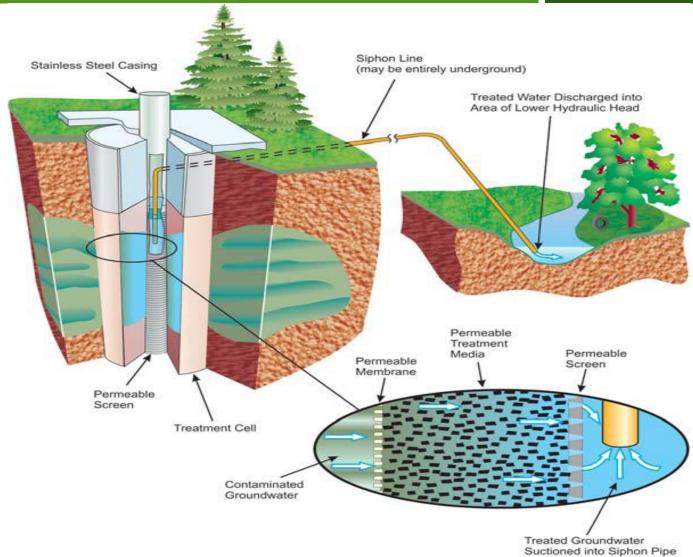
Environmental Liability



^{*} All costs are in constant 2010 dollars

. . . through innovation . . .

\$10B life-cycle cost reduction via high-priority groundwater remediation





... disposition 90% of TRU waste by 2015...



- All Legacy TRU waste to WIPP by 2020, except for Hanford
- ▶ 65% Legacy TRU disposed to date; 90% by 2015

Completed TRU Sites

- ✓ AREVA
- ✓ Lawrence Livermore National Laboratory
- ✓ Lawrence Livermore National Laboratory
 Site 300
- ✓ GE Vallecitos Nuclear Center
- ✓ Energy Technology Engineering Center
- √ Nevada Test Site
- ✓ Rocky Flats Environmental Technology Site
- ✓ Lovelace Respiratory Research Institute
- ✓ Mound
- √ Fernald
- ✓ KAPL Nuclear Fuel Services
- √ Brookhaven National Laboratory
- ✓ Teledyne-Brown
- ✓ ARCO
- ✓ US Army Materiel Command
- ✓ University of Missouri Research Reactor
- ✓ Battelle Columbus Laboratories



... at the Waste Isolation Pilot Plant ...

90% of legacy TRU waste dispositioned by 2015



... and shrink the EM legacy footprint ...

Shrink the EM legacy footprint 90% by 2015

- In 1989, legacy cleanup footprint was 3,125 sq miles
- By 2015, it will be reduced to 93 sq. miles
- 2,636 facilities completed
- 7,745 remediations completed

Hanford – 585 to 10 square miles



Savannah River - 310 to 16 square miles

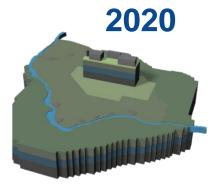


...at Hanford ...

HANFORD

1989 2011 ~ 585 square miles 2015 ~ 295 square miles (49% reduction) 2012





~ 10 Square miles (98% reduction)



~ 187 square miles

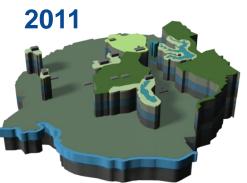
(68% reduction)

... and at Savannah River Site ...

SAVANNAH RIVER

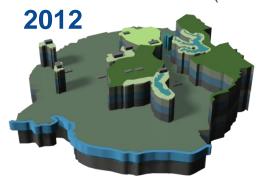


~ 310 Square miles



~ 102 Square miles (67% reduction)

2015



~ 77.5 Square miles (75% reduction)



~ 31 Square miles (90% reduction)



 $E_{\!\!\!M}$ Environmental Management

2020

We will choose excellence . . .



... build on our Recovery Act success ...

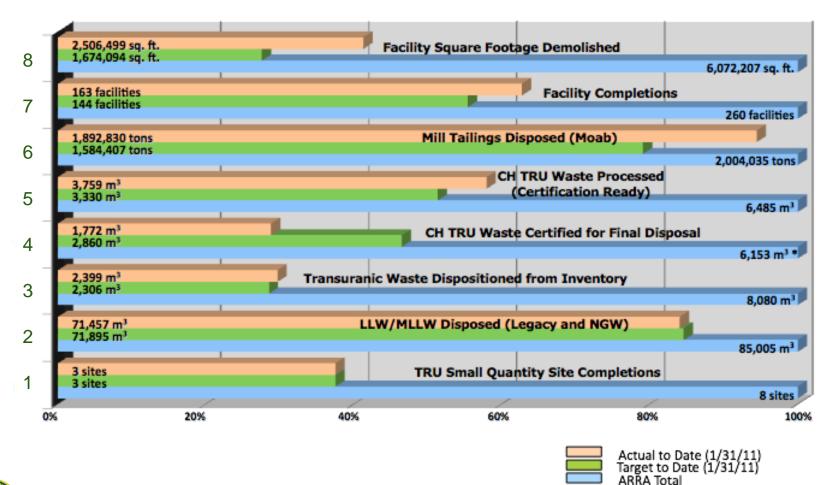
- ARRA demonstrated value; \$7B in future savings and cost avoidance
- 11,183* jobs created/saved with ARRA funds
- awarded to small business
- \$1.7B in Base funding in FY10

> \$1.8B in Recovery Act funds awarded to small business

*September 30, 2010



... continue high performance ...





. . . and improve contract and project management . . .

GAO Report Card

EM has made substantial progress in addressing GAO report on contract management

	Demonstrating strong commitment and top leadership support	GAO Confirmed
	Demonstrating progress in implementing corrective measures	GAO Confirmed
V	Developing a corrective action plan that identifies corrective solutions	GAO Confirmed
	Commit sufficient people and resources to resolve contract management problems	Continue to make progress
	Monitor and independently validate the effectiveness and sustainability of corrective measures	Continue to make progress



EM 2020 Cleanup Vision

Results and Benefits



reduction/avoidance in lifecycle cost via investments

Current Status

Reducing one of our nation's largest liabilities and the burden on future generations

